

**F**ACILITIES

AND

**E**QUIPMENT

**M**AINTENANCE

**S**YSTEM

**FEM**

**USER-ID AND PASSWORD  
SECURITY SYSTEM (U-PASS)**

**INTERFACE CONTROL AND  
DESIGN DOCUMENT**

**FOR THE**

**NAVY SUPPORT GROUP  
(NSSG)**

**FACILITIES AND EQUIPMENT  
MAINTENANCE SYSTEM (FEM)**

**(DRAFT)**

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**USACE  
U-PASS INTERFACE CONTROL DOCUMENT**

**FOR THE**

**NAVY SYSTEMS SUPPORT GROUP (NSSG)  
FACILITIES AND EQUIPMENT MAINTENANCE (FEM) SYSTEM**

**CONTRACT # GS-35F-4357D**

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## TABLE OF CONTENTS

	Page
<b><u>1. SCOPE</u></b> .....	<b>1</b>
<u>1.1 FEM Overview</u> .....	1
<u>1.2 U-PASS Overview</u> .....	3
<b><u>2. POINTS OF CONTACT</u></b> .....	<b>4</b>
<b><u>3. INTERFACING SYSTEMS INFORMATION</u></b> .....	<b>4</b>
<u>3.1.1 FEM Databases</u> .....	4
<u>3.1.2 U-PASS Database</u> .....	5
<b><u>4. INTERFACE DETAILS</u></b> .....	<b>5</b>
<u>4.1 U-PASS to FEM Actions</u> .....	5
<u>4.1.1 Sending Add, Change, or Delete Requests to FEM</u> .....	6
<u>4.1.2 Checking Status of Requests</u> .....	7
<u>4.2 Error Handling</u> .....	7

## 1. SCOPE

This Interface Control Document documents the interface between the Facilities and Equipment Maintenance System (FEM) and the US Army Corps of Engineer's (*need U-PASS name here*) (U-PASS). This interface will be used to supply FEM with standard USACE User-Ids and Passwords.

### 1.1 FEM Overview.

The Naval Systems Support Group (NSSG) is delivering to selected DoD major depots the enterprise functionality to support improved business processes required for effective depot maintenance. Providing this functionality requires the development and delivery of a set of Automated Information Systems (AIS) that automate selected depot processes, improve the efficiency of these procedures and continue to meet mission needs within budget constraints. The Program is initially deploying a suite of migration applications composed of Commercial Off-The-Shelf (COTS), and Government Off-The-Shelf (GOTS) and modified GOTS software packages that address major end-items, reparables, tool management, hazardous material information, enterprise information management, and inter-service workload tracking, and equipment maintenance. These migration applications were selected by the Services to form an initial baseline suite of capability to satisfy the improved functional baseline, derived from the Joint Services functional users.

FEM is the system identified by the Joint Services functional users to be employed by the Services for managing industrial plant facilities and capital equipment resources. The FEM system is to provide the depots with an automated tracking and control system for the management of facility and equipment maintenance, equipment calibration, equipment maintenance contracts, inventory control, asset costs, preventive and corrective maintenance, and capacity data. The core application of FEM is MAXIMO Series 5 Version 4.0.3 a COTS package developed by Professional Software Development Incorporated (PSDI).

FEM is being implemented at two USACE data processing centers to support all USACE Districts:

1. Portland, OR. Supports all FOA databases assigned to the Western Processing Center
2. Vicksburg, MS. Supports all FOA databases assigned to the Central Processing Center

The table below lists the processing center and assigned Activities:

Central Processing Center		Western Processing Center	
A0	Huntsville Engineering and Support Center	E0	North Atlantic Division
B0	Mississippi Valley Division	E1	Baltimore District
B1	Memphis District	E2	Washington District
B2	New Orleans District	E3	New York District
B3	St Louis District	E4	Norfolk District
B4	Vicksburg District	E5	Philadelphia District
B5	Rock Island District	E6	New England

Central Processing Center		Western Processing Center	
B6	St Paul District	G0	Northwestern Division
E7	Europe District	G2	Portland District
K0	South Atlantic Division	G3	Seattle District
K2	Charleston District	G4	Walla Walla District
K3	Jacksonville District	G5	Kansas District
K5	Mobile District	G6	Omaha District
K6	Savannah District	H0	Great Lakes and Ohio River Division
K7	Wilmington District	H1	Huntington District
M0	Southwestern Division	H2	Louisville District
M2	Fort Worth District	H3	Nashville District
M3	Galveston District	H4	Pittsburgh District
M4	Little Rock District	H5	Buffalo District
M5	Tulsa District	H6	Chicago District
N0	Transatlantic Programs Center	H7	Detroit District
Q0	Water Resources Support Center	J0	Pacific Ocean Division
S0	HQ USACE	J1	Far East District
T0	USACE Finance Center	J2	Japan District
U4	Eng Research and Development Center	J3	Honolulu District
W2	Humphreys Engineering Center Support Activity	J4	Alaska District
W3	Prime Power School	L0	South Pacific Division
		L1	Los Angeles District
		L2	Sacramento District
		L3	San Francisco District
		L4	Albuquerque District

## **1.2 U-PASS Overview.**

### **1.2.1 Purpose**

User-id and password standards apply to all CEEIS users as well as anyone authorized to use CEEIS Network resources. Standard formats for the user-id are used to charge resource utilization for each user. Users must initiate a request for a user-id, which is then entered into the User-id and Password Security System (U-PASS). U-PASS is the automated system that accomplishes the administration of all user-ids and associated passwords.

U-PASS provides uniform procedures and assures compliance with applicable regulations including AR 380-19, Information Systems Security.

### **1.2.2 Applicability**

The procedures outlined herein are applicable throughout the USACE for access to:

- CEEIS computer systems at the CEEIS Processing Centers in Portland and Vicksburg and the Program Support Office (PSO) in Washington, D.C.
- Other USACE computer resources, which have connectivity to CEEISNET from LANs or other means.
- General use of CEEISNET for access to resources outside CEEISNET, e.g., MILNET, INTERNET, or other DOD resources.
- All non-USACE users that are authorized access to the Processing Center computers or other USACE computing resources.
- All non-USACE users will be assigned the EROC and office symbol of the functional proponent authorizing access to the CEEIS resources.
- All USACE personnel and other authorized users will adhere to the requirements and procedures as outlined herein.

### **1.2.3 Policy**

A user-id and password are assigned on an individual basis and will not be shared. There is no provision for exceptions to individual user-ids. Passwords should not be imbedded in script files, SQL procedures, or programmed into function keys. Passwords should not be written down on a wall next to a PC, written on a PC keyboard, or the like, nor divulged to co-workers. Once logged on the system, users having authorized access to FEM databases will use their system FEM password. A FEM password will never be the same as the user's system logon password.

### **1.2.4 Responsibilities**

**Information System Security Officer (ISSO):** Each ISSO shall:

- Assign, control, administer, and inventory user-ids and passwords.
- Delegate the assignment, inventory and control of the user-ids and passwords to the officially designated ISSO or alternate, in accordance with AR 380-19, paragraphs 1-6d(3) and 1-6d(5).

**Terminal Area Security Officer (TASO):** The officially designated TASO shall:

- Familiarize themselves with the U-PASS procedures to assist users in requesting their user-id and passwords and forwarding the requests to the U-PASS Administrator for entry into U-PASS.

## **2. Points of Contact.**

<b>Organization</b>	<b>Point of Contact</b>
Navy Systems Support Group (NSSG) Norfolk Navy Shipyard, Bldg 33 Portsmouth, VA, 23709	Les Kramer FEM Program Manager Phone: 757-396-2119 DSN: 961-2119
Headquarters, U.S. Army Corps of Engineers (USACE) Office of the Assistant Chief of Staff for Logistics Washington DC,	Ray Urena Chief, Maintenance and Supply Division Phone: 202-761-1618 DSN: 763-1618
U-PASS CEEIS Central Processing Center	Joy Brogden U-PASS Administrator Phone: 601-634-2639
Anteon Corporation Montgomery, AL, 36109	Jim Bent Program Manager Phone: 334-260-3348 or 1-800-362-2322, ext. 3348
Anteon Corporation Montgomery, AL, 36109	Al Kent Project Manager Phone: 334-260-3222 or 1-800-362-2322, ext. 3222

## **3. Interfacing Systems Information**

The tables below identify the databases that will be interfaced. The interface will be accomplished using database links. However, there will be some cases where the data will not be updated real time. In these cases data will be stored and a database link will be established periodically to update data on the other system.

### **3.1.1 FEM Databases**

<b>Name</b>	<b>Location</b>	<b>IP Address</b>	<b>Oracle SID</b>
USACE FEM West	Portland, OR		
USACE FEM East	Vicksburg, MS		

### 3.1.2 U-PASS Database

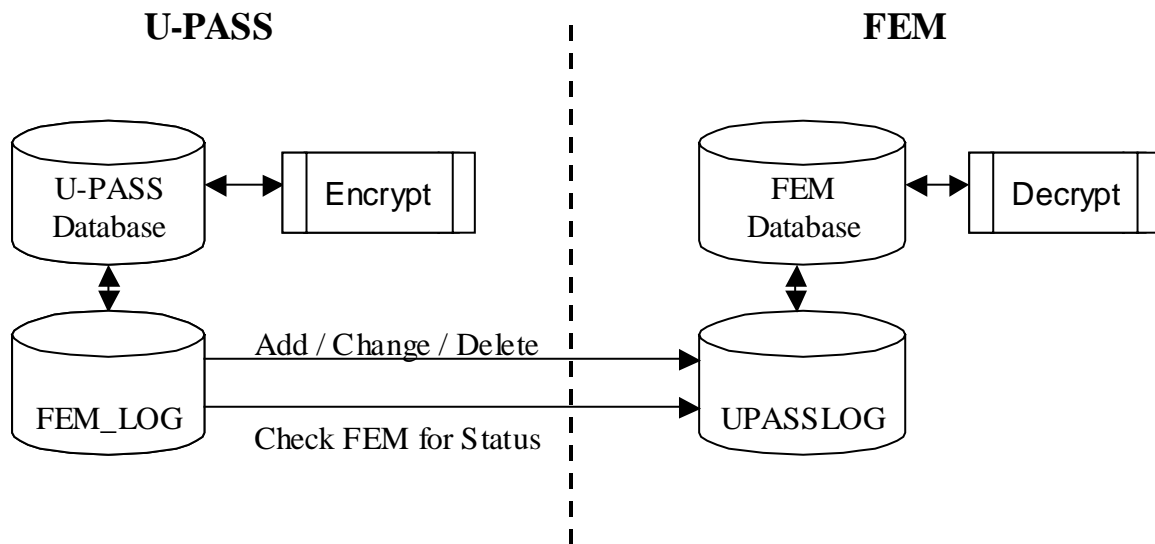
Name	Location	IP Address	Oracle SID

## 4. Interface Details

Oracle's TNSNAMES file will be used to define the database links. FEM will utilize a log table to serve as a transaction history and process control mechanism. Data being sent from U-PASS to FEM will be placed in a FEM log table (UPASSLOG) by the UPASS system. FEM will process data in the log table to appropriate FEM tables. FEM will use the data provided by U-PASS to create or delete a FEM User ID and Password. The data will also be used to change passwords for existing FEM User Ids. The paragraphs below describe each of the major interface processes between FEM and CEFMS

### 4.1 U-PASS to FEM Actions

The diagram below along with the paragraphs that follow, outline the basic process interaction between FEM and U-PASS.



Customers will use the current USACE process for requesting access to one of the FEM databases. U-PASS will send User ID /Password add, change, or delete requests to the appropriate FEM database (East or West) for processing by FEM. U-PASS will check the FEM database periodically to ensure the request was successfully processed by FEM.

The Encryption and Decryption routines will be provided by Anteon and used to encrypt and decrypt the password fields so that can be safely sent between databases.



The table below describes the format of the log tables and how the data will be transferred between them.

U-PASS Table	SENDING SYSTEM			RECEIVING SYSTEM			
	Column Name	Format	Size	FEM Table/	Column Name	Format	Size
FEM_LOG	TRANSID	Integer		UPASSLOG	TRANSID	Integer	
FEM_LOG	TRANSDATE	Date		UPASSLOG	TRANSDATE	Date	
FEM_LOG	USERID	Varchar(2)	8	UPASSLOG	USERID	Varchar(2)	8
FEM_LOG	OLDPASSWORD	Varchar(2)	100	UPASSLOG	OLDPASSWORD	Varchar(2)	100
FEM_LOG	NEWPASSWORD	Varchar(2)	100	UPASSLOG	NEWPASSWORD	Varchar(2)	100
FEM_LOG	ACTIONCODE	Varchar(2)	1	UPASSLOG	ACTIONCODE	Varchar(2)	1
	<i>Null</i>	Varchar(2)	10	UPASSLOG	STATUS	Varchar(2)	10
	<i>Null</i>	Date		UPASSLOG	STATUSDATE	Date	
	<i>Null</i>	Varchar(2)	50	UPASSLOG	ERRORMSG	Varchar(2)	50

The Transaction ID (TRANSID) field is a sequential number assigned by U-PASS as a record is inserted into the log table and will serve as the Key to the table. The Transaction Date (TRANSDATE) field is the date the transaction was created. The Status, Status Date, and Error Message fields will be populated by FEM and used by U-PASS to determine if the request was successfully processed.

#### 4.1.1 Sending Add, Change, or Delete Requests to FEM

U-PASS may send three different types of requests to FEM. The type of request will be determined by interpreting the Action Code field on the request.

- **Add a new user.** Action Code = “A”. FEM will create the Oracle Account for the user and grant permissions as defined in the “FEMUSER” user group. FEM will also add the user to the MAXUSERGROUPS table and create user restrictions in the USERRESTRICTIONS table.

Note: The “FEMUSER” user group will have been built in each FEM database using FEM’s Signature Security application. The System Administrator for each of the FEM databases will also define the level of access using FEM’s Signature Security application. The FEM System Administrator will be responsible for moving the User ID to a user group that grants more specific permissions to the user.

Note: The system will need to assign user restrictions to the new User ID if the System Administrator used the FEM Restrictions application to assign any user group restrictions to the FEMUSER user group.

- **Change a user’s password.** Action Code = “C”. FEM will change the current user’s Oracle password.

Note: FEM will use the old password to insure the request is valid.

- **Delete a user.** Action Code = “D”. FEM will drop the Oracle User and remove the User ID from the FEM database tables

#### **4.1.2 Checking Status of Requests**

FEM will update the UPASSLOG table to indicate the status of processing the request. If the request is successfully processed, FEM will change the STATUS field to “ADDED”, “DELETED”, or “CHANGED” based on the action requested. If there is a problem the STATUS field will be changed to “ERROR” and an error message will be put in the ERRORMSG field. The STATUSDATE field will be updated to reflect the date status was changed.

U-PASS will periodically check FEM’s UPASSLOG table to see if requests have been processed and update the U-PASS database. If the status “ERROR” is returned then U-PASS will log the error provided in the ERRORMSG field in the Transaction Log.

#### **4.2 Error Handling**

If there is a problem establishing a link to the FEM database U-PASS will note the error in the transaction log. If you receive a link error contact U-PASS Support.

The FEM System Administrators will monitor the status of the interface by using the UPASS Log application. This application will allow the System Administrators to query the log entries by status and review problems.